

PATENT ABSTRACTS OF JAPAN

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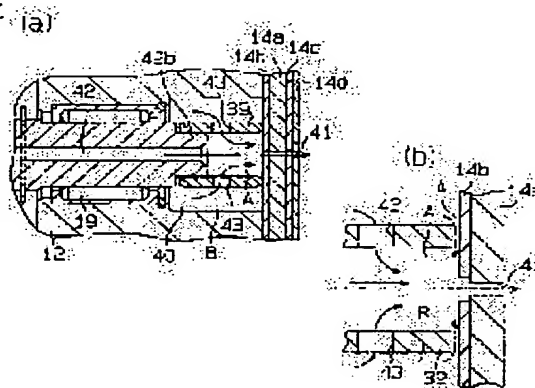
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F04B 27/08(21)Application number : 2000-194658 (71)Applicant : TOYOTA INDUSTRIES
CORP(22)Date of filing : 28.06.2000 (72)Inventor : KUBO YUJI
FUKANUMA TETSUHIKO
MURASE MASAKAZU
NAKAYAMA OSAMU

(54) VARIABLE DISPLACEMENT COMPRESSOR

(57)Abstract:

PROBLEM TO BE SOLVED: To enable keeping of good lubrication of a radial bearing supporting a projecting end from a housing of a driving shaft and an end portion in the opposite side, by omitting an energizing spring of the driving shaft.

SOLUTION: A cylinder block 12 is provided with a storage chamber 40 communicating to a storage hole 18 equipped with the radial bearing 19 supporting a second end portion of the driving shaft 16 at one end, and blocked by a valve/port forming body 14 at the other end. The storage chamber 40 and a sucking chamber 31 are communicated by a passage 41. In the storage chamber 40, a regulating member 39 regulating movement to the rear side of the driving shaft 16 is fixed so as to divide the storage chamber 40 into an opening side area A of the passage 41 and a radial bearing side area B. The regulating member 39 is provided so as to have a little clearance Δ between the regulating member 39 and the valve/port forming body 14 at a normal compressing operation, and to make the clearance Δ zero to regulate the movement of the driving shaft 16 when the pressure in a crank chamber is rapidly raised. A hole 43 communicating both areas A, B is formed on the regulating member 39.



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